

Proposed Rule 10 CSR 10-6.345

Control of NO_x Emissions From Upwind Sources

Department of Natural Resources
Air Pollution Control Program

Background

- Address large sources of nitrogen oxides that could affect air quality in St. Louis
- Stricter rules in nonattainment area
- Concern about controls, costs, planning
- Industry and regulator discussions
- Improve upfront understanding of expectations
- MACC resolution in March 2004



0 37,000 74,000 148,000 Meters



Legend

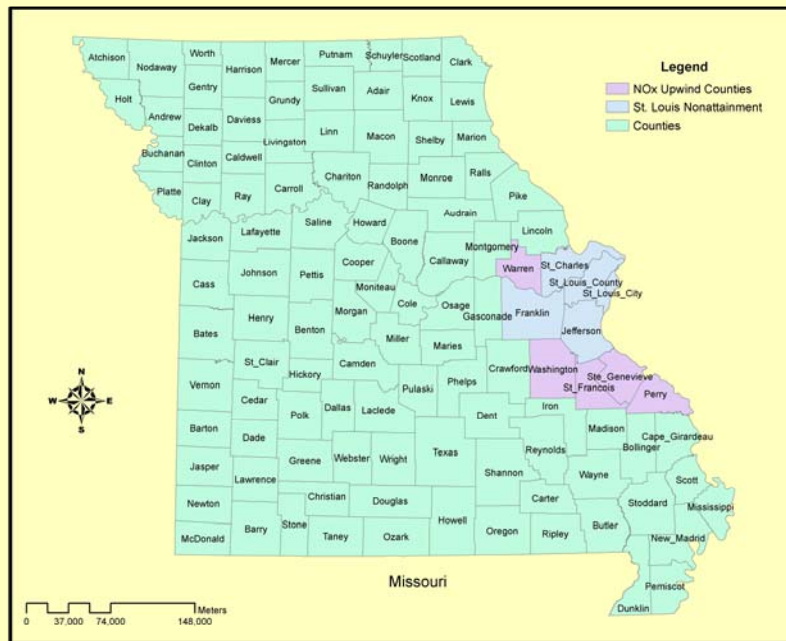
- NOx Upwind Counties
- St. Louis Nonattainment
- Counties

Missouri

Significant Impact Threshold

- Converting 1-hour design value to 8-hour design value
 - 8 hour standard more stringent, use of ratio
 - smaller safety margin exists with 8 hour
- Approximately 900 - 1,000 tons per ozone season NOx emission threshold calculated

MAACC resolution



- Five (5) counties
- NOx emission source greater than 900 tons per ozone season
- Five (5) year rule

Rule Features

- What happens to a source now?
 - case by case evaluation of downwind ozone impact
 - PSD and BACT
- What changes with this rule?
 - NOx emission cap set at 900 tons per ozone season
 - Emission offsets after 900 tons

Rule development and provisions

- Workgroup meetings
- Rule Applicability
- Definitions
- General Provisions

Applicability

- New emission sources or modifications in Perry, St. Genevieve, St. Francois, Washington, and Warren Counties
- Sources with a project-specific net emissions increase greater than **nine hundred (900) tons of NO_x** during ozone season
- Rule **expires five (5) years** from the effective date

Definitions

- Baseline emission inventory
- Ozone season
- Project-specific net emissions increase
- Supplemental Emission Reductions (SERs)

General Provisions

(A) The source shall apply one or more of the following emission reduction strategies;

- beyond BACT emission controls and/or ozone season operating limitations
- 1:1 emission offsets for NOx emissions
- subject to a NOx cap and trade program
- obtains SERs

General Provisions

- (B) Sources subject to this rule may conduct regional transport modeling
- not raising predicted ozone level more than 1 ppb in critical grid cell modeling shall met rule requirement

Summary

- Addresses large NO_x sources that most impact ozone in St. Louis
- Proactive regulation
- Limited timeframe (5) year
- Not part of the SIP